


heterologous eukaryotic or prokaryotic host, wherein Xaa at position 533 of SEQ ID NO: 1 and Xaa at position 534 of SEQ ID NO: 40 is phenylalanine.

47. (Amended) The process according to claim 46, wherein the mistletoe lectin polypeptide corresponds to a mistletoe lectin A-chain (MLA) or a fragment thereof, and comprising the polypeptide sequence of SEQ ID NO: 2 and SEQ ID NO: 41, or a fragment thereof.

 48. (Amended) The process according to claim 46, wherein the mistletoe lectin polypeptide corresponds to a mistletoe lectin B-chain (MLB) or a fragment thereof, comprising the polypeptide sequence of SEQ ID NO: 3, or a fragment thereof, wherein Xaa at position 533 of SEQ ID NO: 1 and Xaa at position 534 of SEQ ID NO: 40 is phenylalanine.

49. (Amended) A mistletoe lectin polypeptide comprising the sequence of SEQ ID NO: 1 and SEQ ID NO: 40 or a fragment thereof, wherein Xaa at position 533 of SEQ ID NO: 1 and Xaa at position 534 of SEQ ID NO: 40 is phenylalanine.

50. (Amended) The mistletoe lectin polypeptide of claim 49, comprising the sequence of SEQ ID NO: 2 and SEQ ID NO: 41 or a fragment thereof, wherein the mistletoe lectin polypeptide corresponds to the MLA chain or a fragment thereof.

51. (Amended) The mistletoe lectin polypeptide of claim 49, comprising the sequence of SEQ ID NO: 3 or a fragment thereof, wherein the mistletoe lectin

C7
Conclude

polypeptide corresponds to the MLB chain or a fragment thereof, wherein Xaa at position 533 of SEQ ID NO: 1 and Xaa at position 534 of SEQ ID NO: 40 is phenylalanine.

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85. (Amended) A process for the production of a mistletoe lectin polypeptide in mistletoe cells and/or a transgenic mistletoe plant having the sequence of SEQ ID NO: 1 and SEQ ID NO: 40 or a fragment thereof, comprising the step of expressing by means of a eukaryotic vector, which contains a nucleic acid coding for the mistletoe lectin polypeptide or a fragment thereof having the nucleic acid sequence originally found in mistletoe cell DNA, in a mistletoe cell and/or a transgenic mistletoe plant, wherein the transcription product of this nucleic acid molecule is modified in mistletoe cells and/or transgenic mistletoe plants by post-transcriptional and/or post-translational mechanisms, wherein Xaa at position 533 of SEQ ID NO: 1 and Xaa at position 534 of SEQ ID NO: 40 is phenylalanine.

86. (Amended) The process of claim 85, wherein the mistletoe lectin polypeptide corresponds to the mistletoe lectin A-chain or a fragment thereof and includes the sequence of SEQ ID NO: 2 and SEQ ID NO: 41, or a fragment thereof.

87. (Amended) The process of claim 40, wherein the mistletoe lectin polypeptide corresponds to the mistletoe lectin B-chain or a fragment thereof and includes the sequence of SEQ ID NO: 3, or a fragment thereof wherein Xaa at position 533 of SEQ ID NO: 1 and Xaa at position 534 of SEQ ID NO: 40 is phenylalanine.

II. REMARKS

The applicants wish to thank Examiner Liu for the courteous assistance he exhibited in a telephonic interview with the undersigned on April 25, 2002.